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Illinois  
Environmental  
Protection Agency

Division of Public Water Supplies  
2200 Churchill Road  
Springfield, Illinois 62706

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## Groundwater Quality Protection Program

Round Lake  
FACILITY NUMBER 0971500  
WELL SITE SURVEY REPORT

Division of Public Water Supplies





IEPA/PWS/93-099

GROUNDWATER QUALITY PROTECTION PROGRAM:

Round Lake  
FACILITY NUMBER 0971500  
WELL SITE SURVEY REPORT

Presented by:

Division of Public Water Supplies

Published by:

Illinois Environmental Protection Agency  
Springfield, Illinois

April 1994

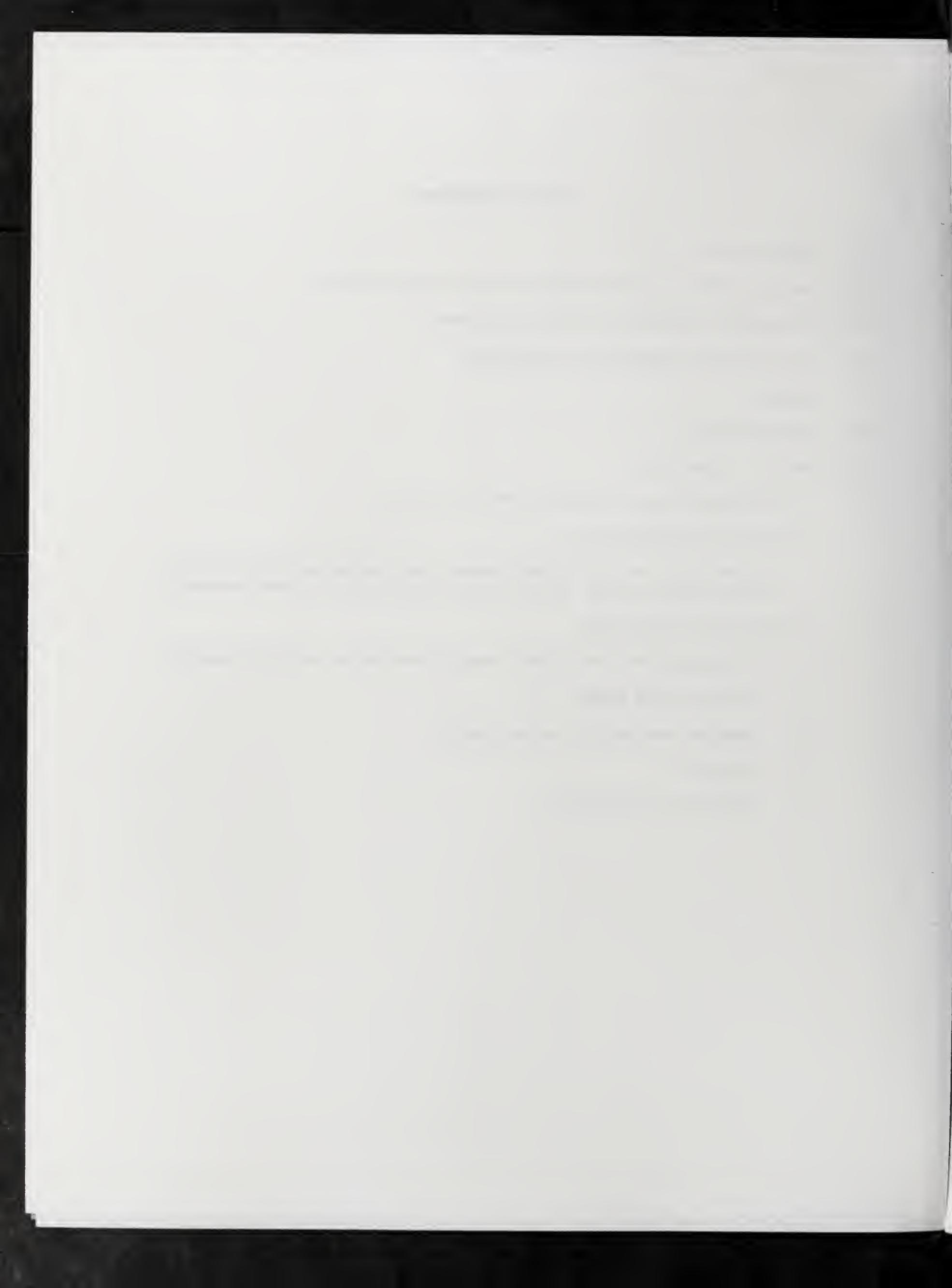




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### INTRODUCTION

This report has been prepared by the Illinois Environmental Protection Agency (Agency) pursuant to Section 17.1 of the Illinois Environmental Protection Act (Act). The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to the groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

### FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

Round Lake has three public water supply wells. The facility produces 343,000 gallons per day to an estimated population of 3550. See Table I for a description of each well. The wells utilize a shallow bedrock and a deep bedrock (for well no. 3) aquifer overlain by uniform, relatively impermeable silty or clayey till at least 50 feet thick. Permeability is the ability of a soil or sediment to transmit fluids. A detailed description and geologic profile is found in the Facility wells Report (Appendix D).

TABLE 1

Well I.D.	Setback Min. (Ft.)	Setback Max. (Ft.)	Status	Capacity (gpm) (MGD)	Specific Capacity (gpm/ft)	Treatment	Aquifer	Well Depth (Ft.)	Well Logs Avail.
Well #1 (20298)	200		A	140.2 0.202	NA	C1	Shallow Bedrock	350	No
Well #2 (20299)	200		A	249.8 0.360	NA	C1	Shallow Bedrock	359	Yes
Well #3 (20300)	200		A	399.0 0.576	NA	C1	Deep Bedrock	1241	Yes

A=Active; I=Inactive; SB=Standby

### GROUNDWATER SAMPLING/MONITORING HISTORY

The public water supply wells no. 1, no. 2, and no. 3 were sampled as part of the Statewide Groundwater Monitoring Network on January 7, 1987 and August 6, 1985 (for well no. 2). The samples were analyzed for volatile organic and aromatic chemicals (VOC/VOA) and inorganic chemicals (IOC). The VOC/VOA analyses performed detected no quantifiable levels of organic chemicals in the wells. The IOC analyses performed found the water from the wells to meet all general use guidelines.

#### SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B-C), that relate information about potential sources, routes and possible problem sites to your water supply well(s). The location of potential sources, routes, possible problem sites, water supply wells, minimum setback zones, and 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,500 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized for agricultural production). The Agency five-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

#### Survey Results and Findings:

The well site survey of Round Lake was conducted on June 29, 1993 by Laurie Moyer, Environmental Protection Specialist from the Agency's Rockford Regional Office. The following describes the results and findings for Round Lake.

##### Round Lake Well #1 (20298)

The survey area is urban consisting of commercial/industrial businesses. The well is located off Rt. 134. There are three visible potential sources, routes, or possible problem sites within the minimum setback zone (200 feet). These sites are Arkin Hardware (map code 1) located 100 feet southwest of the well, Molidor's Standard Service & Car Wash (map code 3) located 100 feet northwest of the well, and Chain-o-Lakes (map code 4) located 50 feet north of the well. Four potential source or possible problem site is located outside the minimum setback zone but within the survey area of the well (1500 feet). These sites are Round Lake Fire Department (map code 2) located 400 feet west of the well, A Tire Country Service (map code 5) located 725 feet northwest of the well, Kurz Machine and Manufacturing (map code 6) located 1000 feet northwest of the well, and One Hour Service Dry Cleaning (map code 8) located 1475 feet northwest of the well.

Round Lake Well #2 (20299)

The survey area is urban consisting of commercial/industrial businesses. The well is located off Cedar Lake Rd. There are no visible potential sources, routes, or possible problem sites within the minimum setback zone (200 feet). Ten potential source or possible problem site is located outside the minimum setback zone but within the survey area of the well (1500 feet). These sites are Arkin Hardware (map code 1) located 1250 feet southeast of the well, Round Lake Fire Department (map code 2) located 1150 feet south of the well, Molidor's Standard Service & Car Wash (map code 3) located 1150 feet southeast of the well, Chain-o-Lakes Lumber (map code 4) located 1100 feet southeast of the well, A Tire County Service (map code 5) located 400 feet southeast of the well, Kurz Machine and Manufacturing (map code 6) located 225 feet southeast of the well, Classy Chassis (map code 7) located 675 feet southwest of the well, One Hour Service Dry Cleaning (map code 8) located 350 feet north of the well, John MaGee Jr. High School (map code 9) located 800 feet north of the well, and The Grieve Corp. (map code 10) located 900 feet northwest of the well.

Round Lake Well #3 (20300)

The survey area is rural consisting of moderate density residential housing and farmland. The well is located off Nippersink Road. There are no visible potential sources, routes, or possible problem sites within the survey (200 feet) or located outside the minimum setback zone but within the survey (1500 feet).

### SUMMARY

The well site survey conducted indicates that there are potential sources/sites that could pose a hazard to groundwater utilized by the Round Lake public water wells.

- Two sites with below ground fuel storage: Molidor's Standard Service & Car Wash and A Tire Country Services (also a small quantity generator).
- Several other sites including Arkin Hardware, Round Lake Fire Department, Chain-o-Lakes Lumber, Kurz Machine & Manufacturing, Classy Chassis, One Hour Dry Cleaning, John MaGee Jr. High School and The Grieve Corp.

The Illinois Environmental Protection Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the Agency. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the control would then be assumed by the local officials through adoption of a maximum setback zone ordinance.

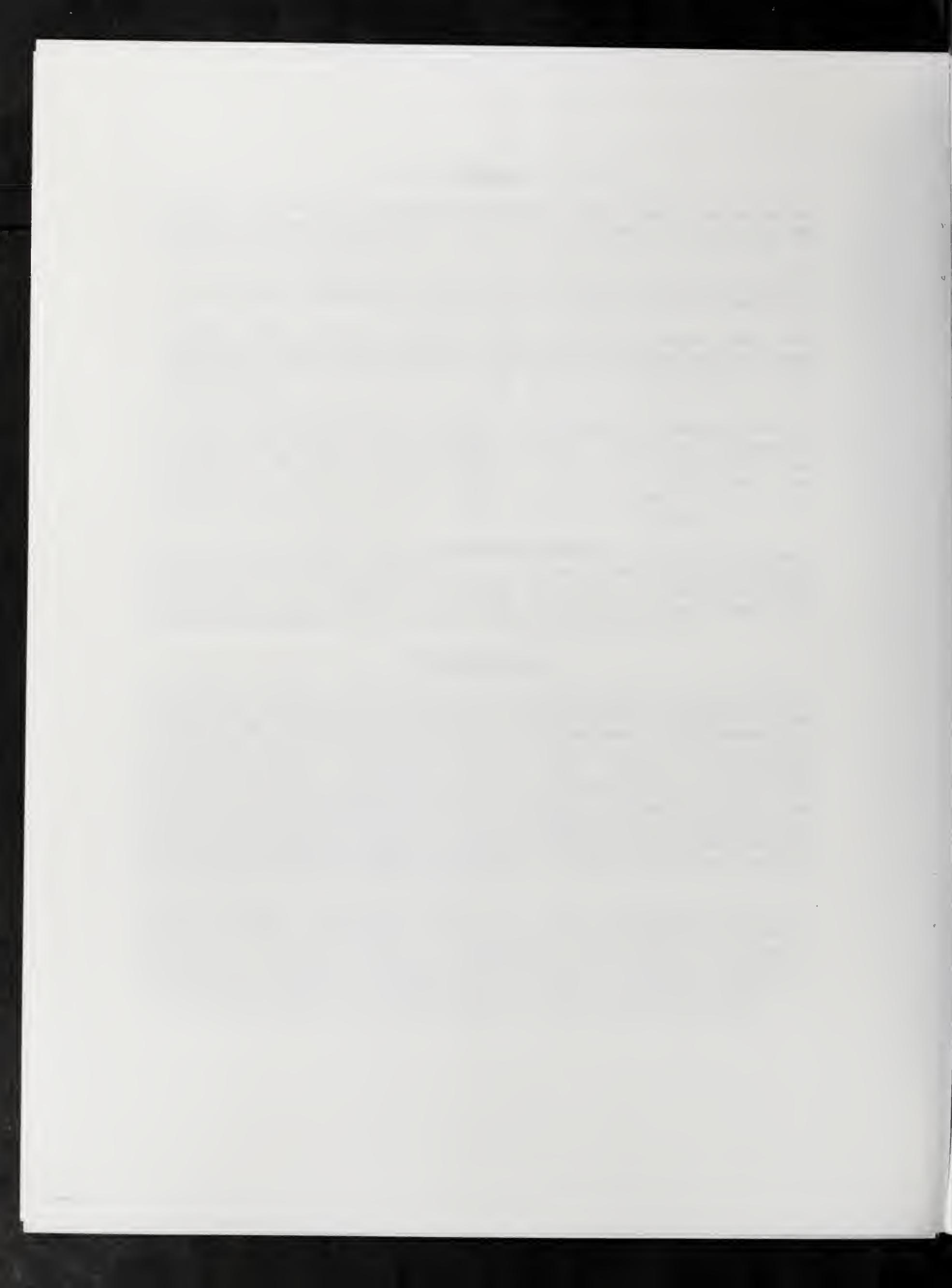
Maximum setback zones prohibit the siting of new potential primary sources of groundwater contamination. A maximum setback up to 1,000 feet could expand the regulatory coverage of certain existing and new activities. These controls could be implemented upon the adoption of proposed regulations by the Illinois Pollution Control Board.

### RECOMMENDATIONS

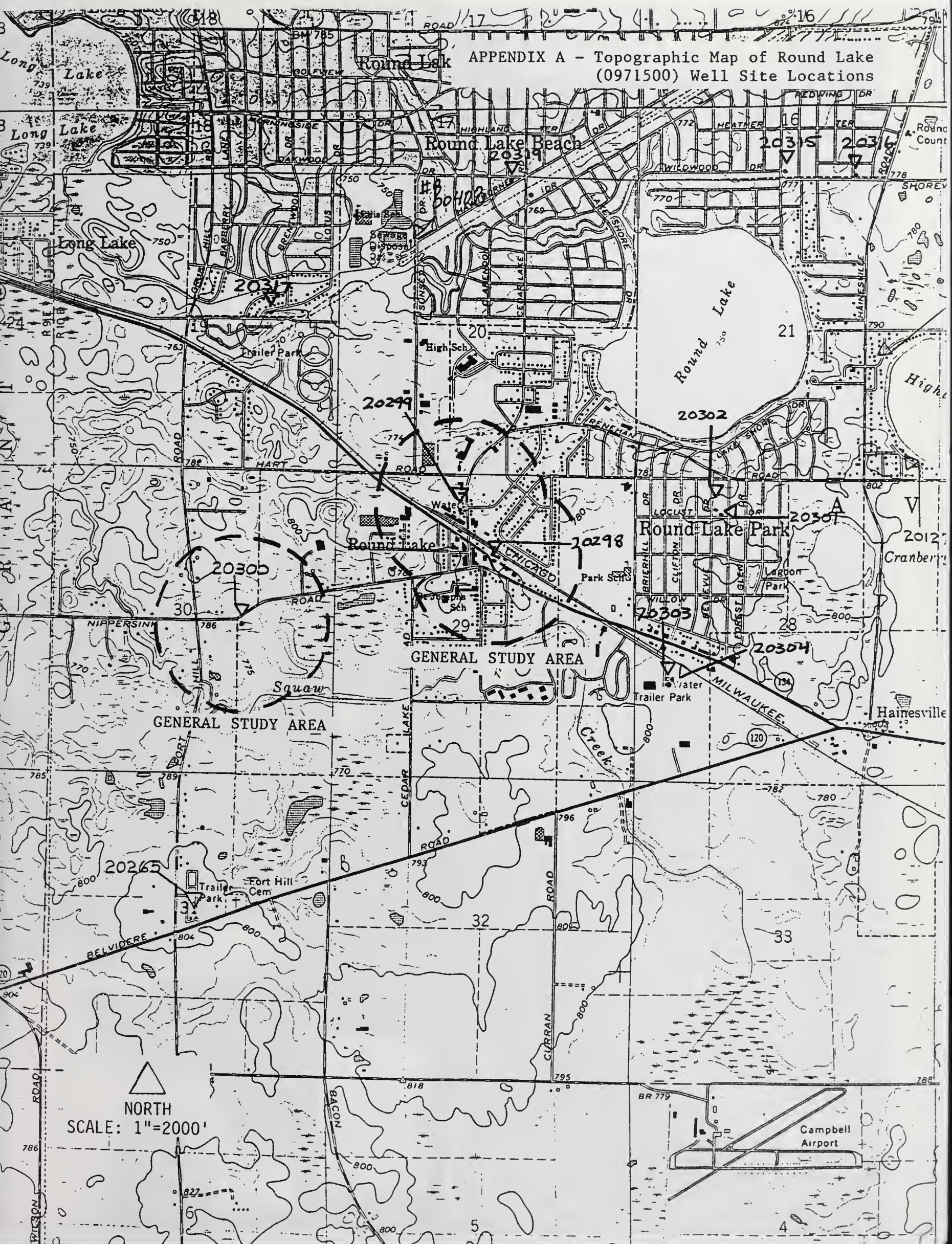
The Agency strongly urges Round Lake to consider establishing a maximum setback zone ordinance for its wells. Maximum setback zones prohibit the siting of new potential primary sources of groundwater contamination up to 1000 feet from respective wellheads. Regulatory coverage of certain existing activities could be expanded upon adoption of proposed regulations currently before the Illinois Pollution Control Board. To aid you in the development of further regulatory coverage for your well supply, the Agency prepared a "Maximum Setback Zone Workbook" that provides detailed case studies of how to establish maximum setback zones. This text and further technical assistance is readily available from the Agency and the Illinois State Water Survey.

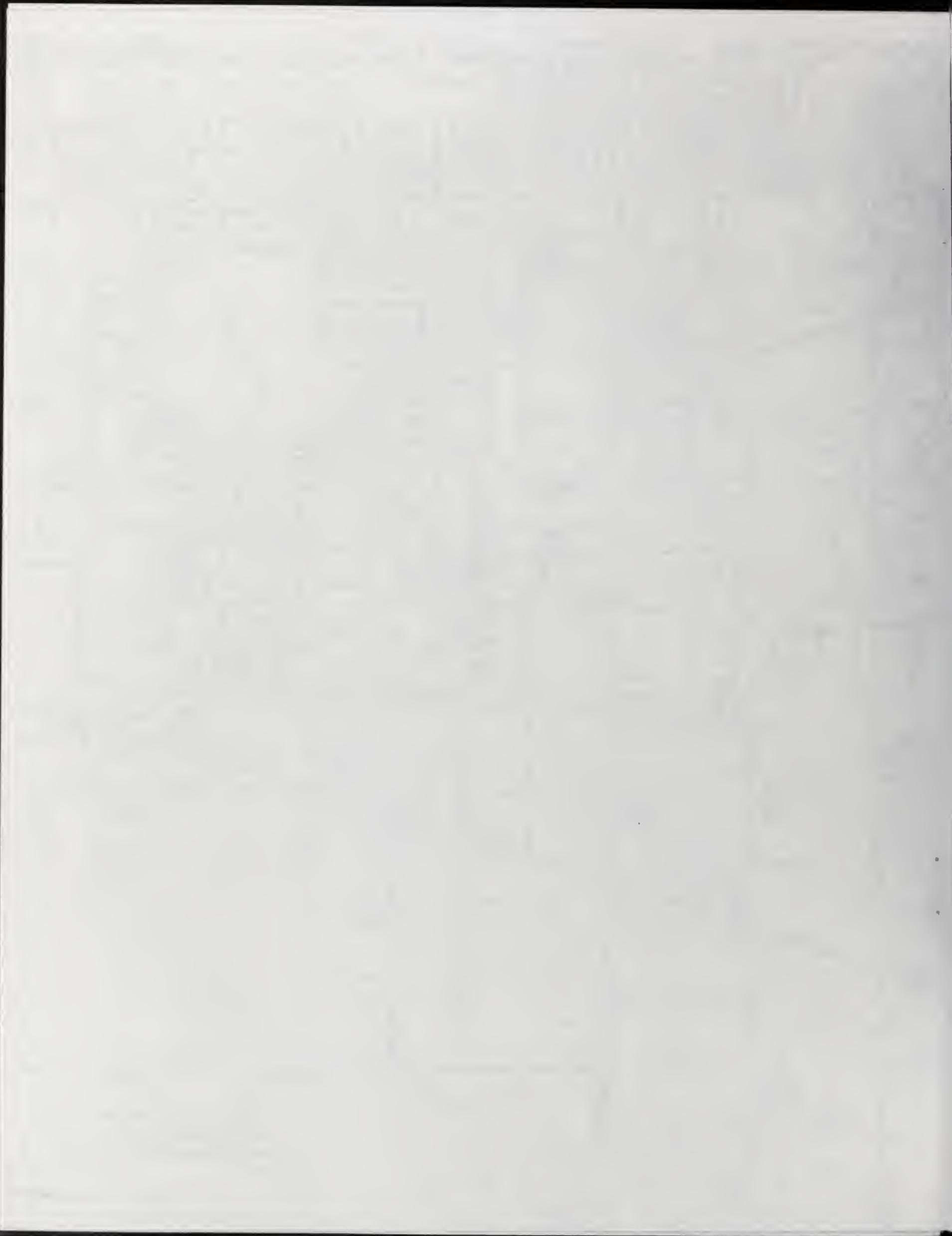
Local governments are also encouraged to consider conducting groundwater protection needs assessments. Any county or municipality having a population less than 25,000 or 5,000 persons respectively, may request the Agency to conduct a hazard review in lieu of a need's assessment. The Agency may issue an "advisory of groundwater contamination hazard" if a significant hazard to the public health or the environment exists.

## **TECHNICAL APPENDICES**



**APPENDIX A - Topographic Map of Round Lake  
(0971500) Well Site Locations**





APPENDIX B  
Aerial Photographic Map



APPENDIX B  
Aerial Photographic Map



Appendix B1 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE  
Round Lake Well No. 1 (IEPA #20298)

SURVEYOR: Moyer  
SURVEY DATE: 06-29-93  
ADDRESS: Village of Round Lake  
442 N. Cedar Lake Rd.  
Round Lake, IL 60073

---

AGENCY WELL NO: 20298  
WELL NAME & DESC: Well #1  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0971500 - Round Lake  
FACILITY PHONE CONTACT: 708-546-0962

---

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 45N, 10E, 29, 4F  
DISTANCE FROM CORNER: 1550N, 2400W  
QUAD SHEET CODE & NAME: 008D - Grayslake  
MIN. SETBACK: 200 feet  
MAX. SETBACK:

---

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E- Uniform, relatively impermeable silty or clayey till at least 50 feet thick; no evidence of interbedded sand and gravel.

AGE OF WELL: 1912  
WELL DEPTH: 350 feet  
CASING DEPTH: 230  
AQUIFER CODE: 5050 - Shallow Bedrock  
MULTIPLE AQUIFER (Y,N): No  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting of commerical/industrial businesses.

---

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO:

APPENDIX B1 - INVENTORY & SYNOPSIS OF UNIT(S) Round Lake Well No. 1 (IEPA #20298)

\*CLASSF KEY

MIN. ZONE  
PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE  
OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 20298-01

NAME & ADDRESS OF UNIT OWNER: Arkin Hardware, 319 W. Nippersink Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Hardware

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 100 feet southwest of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20298-02

NAME & ADDRESS OF UNIT OWNER: Round Lake Fire Department, 409 W. Nippersink Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Fire Department

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 400 feet west of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20298-03-PS

NAME & ADDRESS OF UNIT OWNER: Molidor's Standard Service & Car Wash, W. Nippersink Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Service Station & Car Wash, 3 registered underground storage tanks on site, OSFM #2-018131

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 100 feet northwest of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20298-04

NAME & ADDRESS OF UNIT OWNER: Chain-o-Lakes Lumber, 340 W. Railroad, Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Lumber yard

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 50 feet north of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20298-05-OS

NAME & ADDRESS OF UNIT OWNER: A Tire Country Service, 363 N. Cedar Lake Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Union 76 Gas Station and Goodyear Tire Store, 3 registered underground storage tanks on site OSFM #2-006179 Small quantity generator

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 725 feet northwest of the well

---

APPENDIX B1 - INVENTORY & SYNOPSIS OF UNIT(S) Round Lake Well No. 1 (IEPA #20298)

\*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 20298-06

NAME & ADDRESS OF UNIT OWNER: Kurz Machine and Manufacturing, 380 Cedar Lake Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Manufacture tools, dies, jigs, stamps, machine parts and general machining

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 1000 feet northwest of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20298-07

NAME & ADDRESS OF UNIT OWNER: Classy Chassis, 545 Railroad Ave., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Auto Repair

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 1600 feet northwest of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20298-08

NAME & ADDRESS OF UNIT OWNER: One Hour Service Dry Cleaning, 456 N. Cedar Lake Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Dry Cleaners

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 1475 feet northwest of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20298-09

NAME & ADDRESS OF UNIT OWNER: John MaGee Jr. High School, 500 N. Cedar Lake Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Jr. High School

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 2000 feet northwest of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20298-10

NAME & ADDRESS OF UNIT OWNER: The Grieve Corp., 500 Hart Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Manufacture industrial and laboratory ovens and furnaces

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 2150 feet northwest of the well

---



APPENDIX C  
Aerial Photographic Map





APPENDIX B2 - INVENTORY & SYNOPSIS OF UNIT(S) Round Lake Well No. 2 (IEPA #20299)

SURVEYOR: Moyer  
SURVEY DATE: 06-29-93  
ADDRESS: Village of Round Lake  
442 N. Cedar Lake Rd.  
Round Lake, IL 60073

---

AGENCY WELL NO: 20299  
WELL NAME & DESC: Well #2  
TREATMENT APPLICATION POINT: 02  
FACILITY NO. & NAME: 0971500 - Round Lake  
FACILITY PHONE CONTACT: 708-546-0962

---

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 45N, 10E, 29, 5H  
DISTANCE FROM CORNER: 600S, 2175E  
QUAD SHEET CODE & NAME: 008D - Grayslake  
MIN. SETBACK: 200 feet  
MAX. SETBACK:

---

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E- Uniform, relatively impermeable silty or clayey till at least 50 feet thick; no evidence of interbedded sand and gravel.

AGE OF WELL: 1945  
WELL DEPTH: 359 feet  
CASING DEPTH: 226  
AQUIFER CODE: 5050 - Shallow Bedrock  
MULTIPLE AQUIFER (Y,N): No  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting of commerical/industrial businesses.

---

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO:

APPENDIX B2 - INVENTORY & SYNOPSIS OF UNIT(S) Round Lake Well No. 2 (IEPA #20299)

\*CLASSF KEY

MIN. ZONE  
PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE  
OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 20299-01

NAME & ADDRESS OF UNIT OWNER: Arkin Hardware, 319 W. Nippersink Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Hardware

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 1250 feet southeast of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20299-02

NAME & ADDRESS OF UNIT OWNER: Round Lake Fire Department, 409 W. Nippersink Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Fire Department

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 1150 feet southeast of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20299-03-OS

NAME & ADDRESS OF UNIT OWNER: Molidor's Standard Service & Car Wash, W. Nippersink Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Service Station & Car Wash, 3 registered underground storage tanks on site, OSFM #2-018131

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 1150 feet southeast of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20299-04

NAME & ADDRESS OF UNIT OWNER: Chain-o-Lakes Lumber, 340 W. Railroad, Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Lumber yard

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 1100 feet southeast of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20299-05-OS

NAME & ADDRESS OF UNIT OWNER: A Tire Country Service, 363 N. Cedar Lake Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Union 76 Gas Station and Goodyear Tire Store, 3 registered underground storage tanks on site OSFM #2-006179 Small quantity generator

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 400 feet southeast of the well

---

APPENDIX B2 - INVENTORY & SYNOPSIS OF UNIT(S) Round Lake Well No. 2 (IEPA #20299)

\*CLASSF KEY

MIN. ZONE

PP = POTENTIAL PRIMARY

PS = POTENTIAL SECONDARY

RI = ROUTE

CC = CERTIFIED

XI = UNKNOWN

CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY

OS = POTENTIAL SECONDARY

OR = ROUTE

CC = CERTIFIED

OX = UNKNOWN

CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 20299-06

NAME & ADDRESS OF UNIT OWNER: Kurz Machine and Manufacturing, 380 Cedar Lake Rd.,  
Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Manufacture tools, dies, jigs, stamps, machine parts and  
general machining

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 225 feet southeast of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20299-07

NAME & ADDRESS OF UNIT OWNER: Classy Chassis, 545 Railroad Ave., Round Lake, IL  
60073

DESCRIPTION AND COMMENTS: Auto Repair

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 675 feet southwest of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20299-08

NAME & ADDRESS OF UNIT OWNER: One Hour Service Dry Cleaning, 456 N. Cedar Lake  
Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Dry Cleaners

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 350 feet north of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20299-09

NAME & ADDRESS OF UNIT OWNER: John MaGee Jr. High School, 500 N. Cedar Lake Rd.,  
Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Jr. High School

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 800 feet north of the well

---

WELL NO. - MAP CODE - CLASSF\*: 20299-10

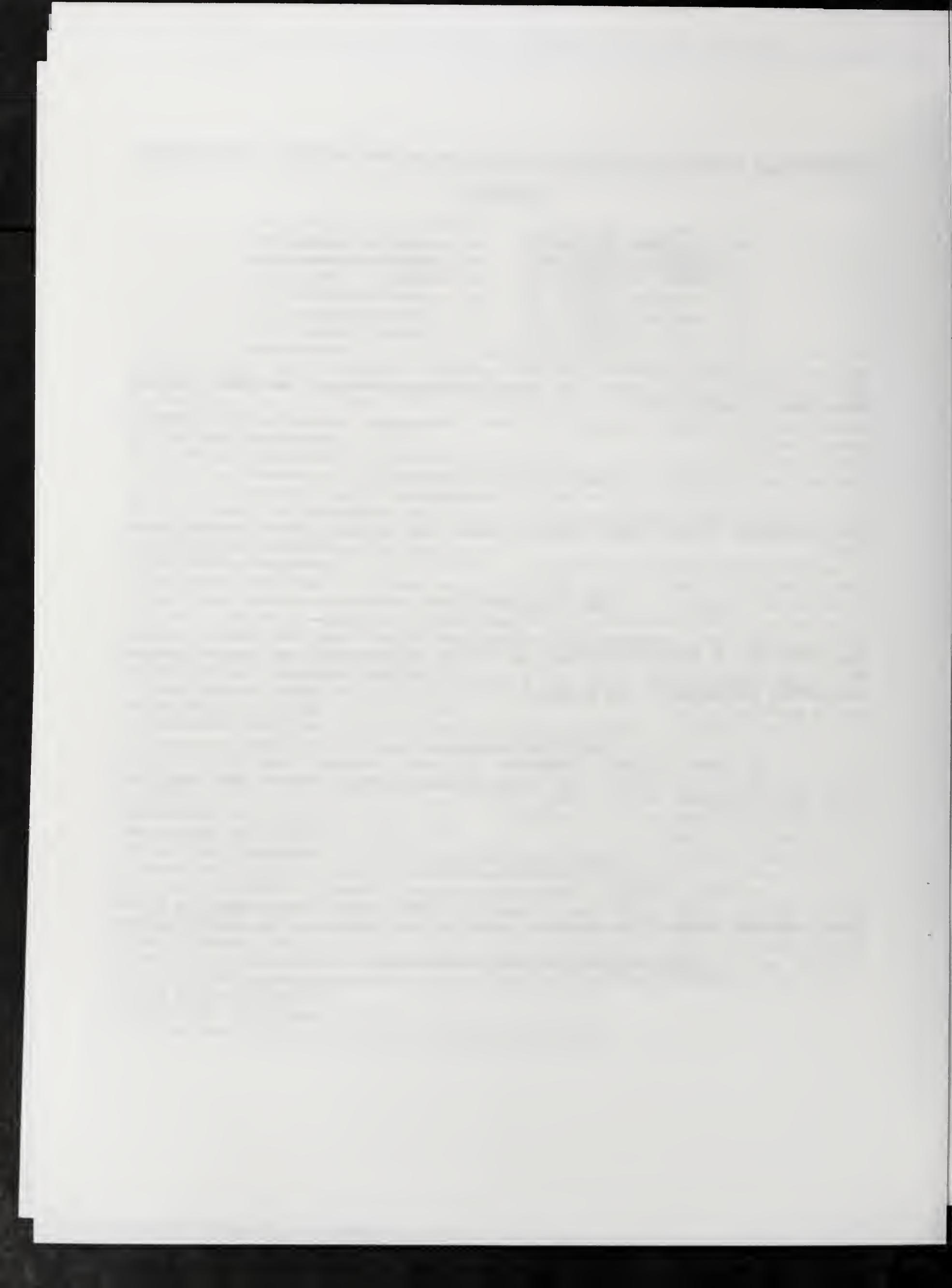
NAME & ADDRESS OF UNIT OWNER: The Grieve Corp., 500 Hart Rd., Round Lake, IL 60073

DESCRIPTION AND COMMENTS: Manufacture industrial and laboratory ovens and furnaces

PRE OR POST (Y,N): Yes

DISTANCE AND DIRECTION: 900 feet northwest of the well

---



## **APPENDIX C**



APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) Round Lake Well No. 3  
(IEPA #20300)

SURVEYOR: Moyer  
SURVEY DATE: 06-29-93  
ADDRESS: Village of Round Lake  
442 N. Cedar Lake Rd.  
Round Lake, IL 60073

---

AGENCY WELL NO: 20300  
WELL NAME & DESC: Well #3  
TREATMENT APPLICATION POINT: 03  
FACILITY NO. & NAME: 0971500 - Round Lake  
FACILITY PHONE CONTACT: 708-546-0962

---

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 45N, 10E, 30, 3D  
DISTANCE FROM CORNER: 2600N, 1575W  
QUAD SHEET CODE & NAME: 008D - Grayslake  
MIN. SETBACK: 200 feet  
MAX. SETBACK:

---

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E- Uniform, relatively impermeable silty or clayey till at least 50 feet thick; no evidence of interbedded sand and gravel.

AGE OF WELL: 1974  
WELL DEPTH: 1241 feet  
CASING DEPTH: 588  
AQUIFER CODE: 6080 - Deep Bedrock  
MULTIPLE AQUIFER (Y,N): Yes  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting of moderate density residential housing and farmland.

---

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO:

APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) Round Lake Well No. 3  
(IEPA #20300)

\*CLASSF KEY

MIN. ZONE

PP = POTENTIAL PRIMARY

PS = POTENTIAL SECONDARY

RI = ROUTE

CC = CERTIFIED

XI = UNKNOWN

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY

OS = POTENTIAL SECONDARY

OR = ROUTE

CC = CERTIFIED

OX = UNKNOWN

---

WELL NO. - MAP CODE - CLASSF\*: 20300

NAME & ADDRESS OF UNIT OWNER:

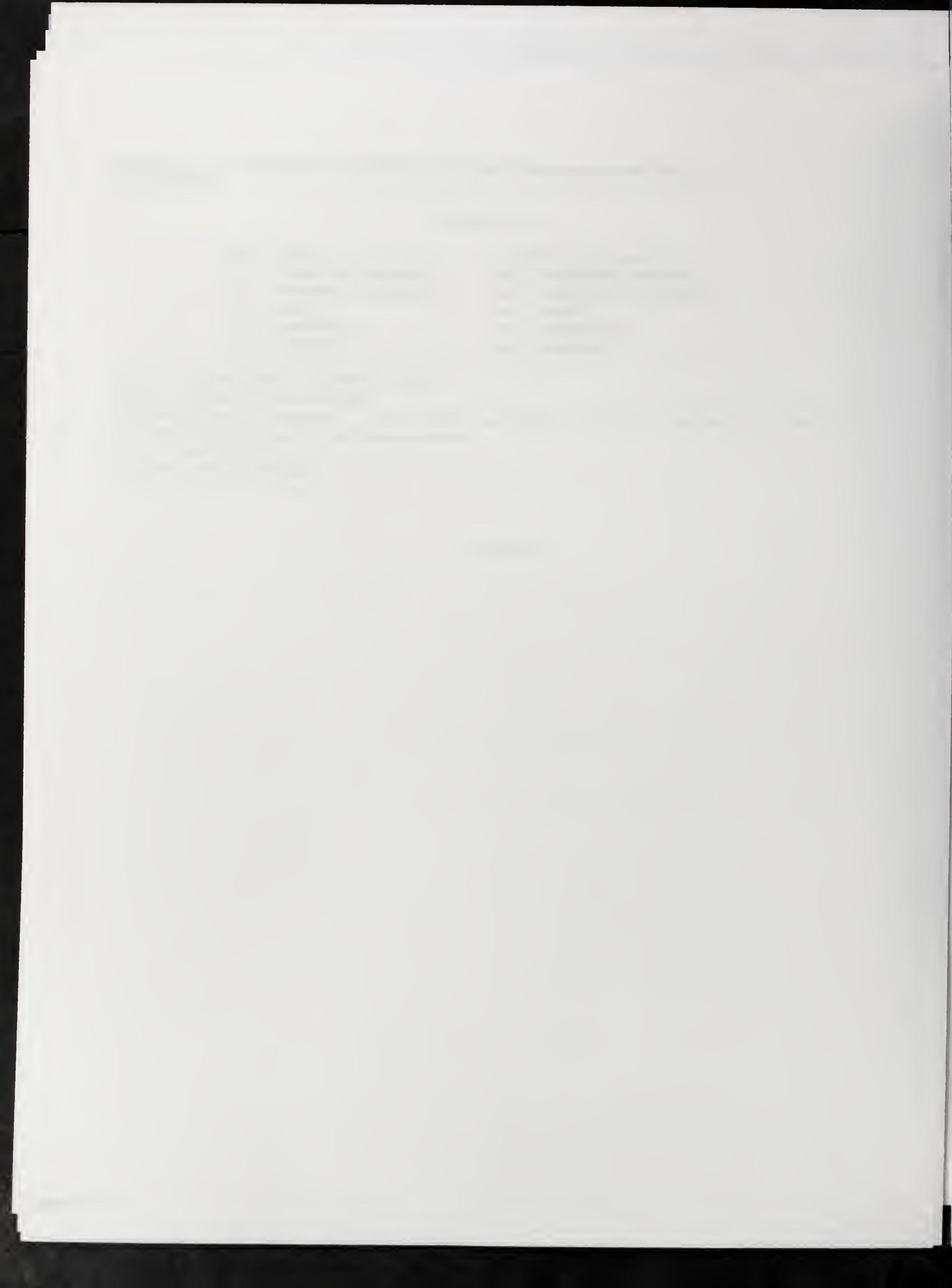
DESCRIPTION AND COMMENTS: No visible potential sources, routes, or possible problem sites located in the survey area.

PRE OR POST (Y,N):

DISTANCE AND DIRECTION:

---

## **APPENDIX D**



## **APPENDIX E**





REPORT: April 23  
FILE NUMBER: 4-14-27

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLY &  
FACILITY WELLS REPORT

PAGE: 6  
DATE: 01/27/94

FACILITY: 0971500 ROUND LAKE

SUSCEPTIBILITY CODES

LAND BURIAL: E = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 30 FT THICK; NO EVIDENCE OF  
INTERBEDDED SAND AND GRAVEL.

LAND SPREADING: D2 = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 20 FT THICK; NO EVIDENCE OF  
INTERBEDDED SAND AND GRAVEL.

(CONTINUED)

**APPENDIX F**



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLY  
SELECTED SAMPLE EXPANSION REPORT

PAGE: 245  
DATE: 01/26/94.

1 FACILITY: J071500 ROUND LAKE  
2 TYPE: RAW  
3 HAD: SPC:

4 STATUS: A  
5 STATUS: S  
6 STATUS: S

SAMPLE NO: J0C3/7200 LOCATION: ROUND LAKE  
SAMPLE TYPE: RAW COLLECTOR: D. ROWLEY  
SAMPLE PURP: I-ROUTINE COMMENTS:  
SAMPLE PROJ: CHEMICAL OBSERVATNS:

ANALYST: RGT STORET

NO	NO	DESCRIPTION	UNITS	RESULT	DRINK WTR	RAW WTR	TYPE WATER	STATION	TRIESTER LEVEL
13	J017000	001 PH LABORATORY UNITS	UNITS	8.300					
14	J017000	001 CONDUCTIVITY (EC)-LAB CUM MOS/CM 3 25 C	UM/CM	5.00.000					
15	J021000	001 RESIDUE TOTAL FILTERABLE 3180 C/MG/L	MG/L	51.000					
16	J031000	001 ALKALINITY, TOTAL MG/L AS CaCO3	MG/L	171.003					
17	J031000	001 HARDNESS, EDTA MG/L AS CaCO3	MG/L	151.000					
18	J021000	001 FLUORIDE, TOTAL MG/L AS F	MG/L	0.310					
19	J031000	001 CHLORIDE, TOTAL MG/L AS CL	MG/L	2.400					
20	J041000	001 SULFATE, TOTAL MG/L AS SO4	MG/L	131.003					
21	J010000	001 NITRATE, NITRITE TOTAL MG/L AS N	MG/L	0.100 <					
22	J117000	001 NITROGEN, AMMONIA TOTAL MG/L AS N	MG/L	0.385					
23	J147000	001 SILICA, TOTAL MG/L AS SiO2	MG/L	13.000					
24	J157000	001 CYANIDE, TOTAL MG/L AS CN	MG/L	0.005 <					
25	J017000	001 ARSENIC, TOTAL RECOVERABLE UG/L AS AS	UG/L	0.203					
26	J111000	001 LEAD, TOTAL RECOVERABLE UG/L AS Pb	UG/L	50.000					
27	J231000	001 MERCURY, TOTAL UG/L AS HG	UG/L	50.000					
28	J331000	001 ZINC, TOTAL RECOVERABLE UG/L AS ZN	UG/L	2.003					
29	J277100	001 CALCIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP	MG/L	10.000					
30	J377100	001 MAGNESIUM, TOTAL RECOVERABLE MG/L AS Mg ANAL BY ICP	MG/L	15.003					
31	J77100	003 SODIUM, TOTAL RECOVERABLE MG/L AS Na ANAL BY ICP	MG/L	61.000					
32	JW7100	004 POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	0.730					
33	J277100	005 ALUMINUM, TOTAL RECOVERABLE UG/L AS Al ANAL BY ICP	UG/L	50.000 <					
34	J177100	006 CARBON, TOTAL RECOVERABLE UG/L AS Ca ANAL BY ICP	UG/L	13.000					
35	J177100	007 BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	668.000					
36	J177100	008 ZEPHYLIUM, TOTAL RECOVERABLE UG/L AS Zn ANAL BY ICP	UG/L	0.500 <					
37	J177100	010 CADMIUM, TOTAL RECOVERABLE UG/L AS Cd ANAL BY ICP	UG/L	3.000 <					
38	J177100	011 CHROMIUM, TOTAL RECOVERABLE UG/L AS Cr ANAL BY ICP	UG/L	5.000 <					
39	J177100	011 COPPER, TOTAL RECOVERABLE UG/L AS Cu ANAL BY ICP	UG/L	5.000 <					
40	J177100	012 COAL, TOTAL RECOVERABLE UG/L AS Co ANAL BY ICP	UG/L	5.003					
41	J177100	013 IRON, TOTAL RECOVERABLE UG/L AS Fe ANAL BY ICP	UG/L	30.000 <					
42	J177100	014 MANGANESE, TOTAL RECOVERABLE UG/L AS Mn ANAL BY ICP	UG/L	5.000 <					
43	J177100	015 NICKEL, TOTAL RECOVERABLE UG/L AS Ni ANAL BY ICP	UG/L	5.000 <					
44	J177100	016 SILVER, TOTAL RECOVERABLE UG/L AS Ag ANAL BY ICP	UG/L	3.000 <					
45	J177100	017 STRONTIUM, TOTAL RECOVERABLE UG/L AS Sr ANAL BY ICP	UG/L	968.000					
46	J177100	018 VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP	UG/L	5.000 <					
47	J177100	019 ZINC, TOTAL RECOVERABLE UG/L AS Zn ANAL BY ICP	UG/L	50.000 <					
48	J221000	020 HARDNESS, CALC - MG/L	MG/L	156.000					

SAMPLE NO: J0C3/7200 LOCATION: ROUND LAKE  
SAMPLE TYPE: RAW COLLECTOR: D. ROWLEY  
SAMPLE PURP: I-ROUTINE COMMENTS:

COLL DATE: 03/19/90 DELIVERED BY: MAIL  
LAB RCVD: 03/21/90 RECEIVED BY: PWD  
LAB COMPL: 04/27/90 LAB SUPERVISOR: RPF  
SMPL PEG: 03/27/90 FUND CODE: PLTU

REPORT: 2002970  
TITLE: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC ATFP SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 167  
DATE: 01/25/94

FACILITY: 097100 ROUND LAKE

SAMPL PROJ: CHEMICAL OBSERVATNS:

ANALYSIS: 001 STORET-----

10 NO VD DESCRIPTION

				UNITS	RESULT	DRINK WTR	RAW WTR	STANDARDS-----	TRIGGER LEVEL
100100	J11	12	PH LABORATORY UNITS	7.800					
1017000	J01	00125	CONDUCTIVITY(EC)-LAB(CUMMOS/CN 2 25 C	UM/CM	\$40.000				
1027000	J31	70300	RESIDUE-TOTAL FILTERABLE 3130 C, MG/L	MG/L	300.000				
1031000	J01	00410	ALKALINITY, TOTAL MG/L AS CACO3	MG/L	259.000				
1051000	J01	00220	HARDNESS, EDTA MG/L AS CACO3	MG/L	222.000				
1071000	J01	00221	FLUORIDE, TOTAL MG/L AS F	MG/L	0.370	4.000			
1081000	J11	00242	CHLORIDE, TOTAL MG/L AS CL	MG/L	10.000				
1091000	J01	00345	SULFATE, TOTAL MG/L AS SO4	MG/L	21.000				
1101000	J11	00230	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100	<	10.000		
1111000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.100	<			
1111000	J11	00254	SILICA, TOTAL MG/L AS SiO2	MG/L	7.400				
1112000	001	00720	CYANIDE, TOTAL MG/L AS CN	MG/L	0.005	<	0.200		
1112000	J01	01102	ARSENIC, TOTAL RECOVERABLE UG/L AS AS	UG/L	1.000	<	50.000		
1112000	J01	01051	LEAD, TOTAL RECOVERABLE UG/L AS Pb	UG/L	5.000	<	50.000		
1112000	J11	71122	MERCURY, TOTAL UG/L AS HG	UG/L	0.050	<	2.000		
1112000	001	01147	SELENIUM, TOTAL RECOVERABLE UG/L AS SE	UG/L	1.000	<	10.000		
1112000	J01	00219	CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	59.000				
1171100	092	00247	MAGNESIUM, TOTAL RECOVERABLE MG/L AS MG ANAL BY ICP	MG/L	18.000				
1171100	J03	22120	SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	21.000				
1171100	094	00337	POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	11.000				
1171100	J05	01113	ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP	UG/L	256.000				
1171100	J09	01007	BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	1070.000	1000.000			
1171100	J07	01024	BORON, TOTAL RECOVERABLE UG/L AS BN ANAL BY ICP	UG/L	19.000				
1171100	003	01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500	<			
1171100	J02	01127	CADMIUM, TOTAL RECOVERABLE UG/L AS Cd ANAL BY ICP	UG/L	3.000	<	10.000		
1171100	J10	01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP	UG/L	3.000	<	50.000		
1171100	J11	01042	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000	<	5000.000		
1171100	012	01037	COAL, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000	<			
1171100	J15	01045	IRON, TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP	UG/L	50.000	<	1000.000		
1171100	J14	01025	MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	26.000	150.000			
1171100	J15	01027	NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000	<			
1171100	J15	01077	SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000	<	50.000		
1171100	J17	01032	STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	5396.000				
1171100	J13	01027	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP	UG/L	5.000	<			
1171100	J13	21022	ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000	<	5000.000		
1171100	J22	32324	HARDNESS, CALC - MG/L	MG/L	224.000				

SAMPL NO: 20029700 LOCATION: ROUND LAKE  
SAMPL TYPE: PW COLLECTION: J ROWLEY  
SAMPL PURP: 1-AQUATINE COMMENTS:  
SAMPL SUB: CHEMICAL OBSERVATNS:

COLL DATE: 03/19/90 DELIVERED BY: MATL  
LAB PCV: 03/21/90 RECEIVED BY: PWD  
LAB COMPL: 04/27/90 LAB SUPERVISOR: PPF  
SAMPL PERIOD: 03/30 FUND CODE: PW30

49	50	51	52	53	54	55	56	57	58
50	51	52	53	54	55	56	57	58	59
51	52	53	54	55	56	57	58	59	
52	53	54	55	56	57	58	59		
53	54	55	56	57	58	59			

FACILITY: 097100 ROUND LAKE

ANALYSIS	RESULT	STORED	DESCRIPTION	STANDARDS		TRIGGER LEVEL
				UNITS	RESULT	
0107000	0.1	00400	pH LA-JPATOPY UNITS	UNITS	8.200	6
0107000	0.1	00005	CONDUCTIVITY(EC)-LAJCEUM-JOSTCH 3 25 C	UNITS	580.000	7
0107000	0.1	73300	RESIDUE TOTAL FILTERABLE 3130 C-MG/L	MG/L	331.000	8
0107000	0.1	00410	ALKALINITY-TOTAL MG/L AS CACO3	MG/L	177.000	9
0107000	0.1	00005	HARDNESS/EDTA MG/L AS CACO3	MG/L	156.000	10
0107000	0.1	0051	FLUORIDE-TOTAL MG/L AS F	MG/L	0.900	11
0107000	0.1	00140	CHLORIDE-TOTAL MG/L AS CL	MG/L	3.500	12
0107000	0.1	00045	SULFATE-TOTAL MG/L AS SO4	MG/L	117.000	13
0107000	0.1	00020	NITRATE % NITRITE TOTAL MG/L AS N	MG/L	0.100 <	14
0107000	0.001	00010	NITROGEN-AMMONIA TOTAL MG/L AS N	MG/L	0.360	15
0107000	0.1	00936	SILICA-TOTAL MG/L AS SiO2	MG/L	14.000	16
0107000	0.1	00720	CYANIDE-TOTAL MG/L AS CN	MG/L	0.005 <	17
0107000	0.1	00022	ARSENIC-TOTAL RECOVERABLE UG/L AS AS	UG/L	1.000 <	18
0107000	0.1	01051	LEAD-TOTAL RECOVERABLE UG/L AS Pb	UG/L	3.000 <	19
0107000	0.1	01160	MERCURY-TOTAL UG/L AS Hg	UG/L	0.050 <	20
0107000	0.1	01147	SELENIUM-TOTAL RECOVERABLE UG/L AS SE	UG/L	1.000 <	21
0107000	0.1	01113	CALCIUM-TOTAL RECOVERABLE MG/L AS CA ANAL-HV ICP	MG/L	31.000	22
0107000	0.1	00219	MAGNESIUM-TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	21.000	23
0107000	0.1	00013	SODIUM-TOTAL RECOVERABLE MG/L AS NA ANAL HV ICP	MG/L	52.000	24
0107000	0.1	00014	POTASSIUM-TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	2.400	25
0107000	0.1	00015	ALUMINUM-TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP	UG/L	50.000 <	26
0107000	0.1	00006	BARIUM-TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	23.000	27
0107000	0.1	00012	CHROMO-TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP	UG/L	62.000	28
0107000	0.008	01012	BERYLLIUM-TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500 <	29
0107000	0.002	01027	CADMIUM-TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP	UG/L	3.000 <	30
0107000	0.010	01034	CHROMIUM-TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP	UG/L	5.000 <	31
0107000	0.010	01142	COPPER-TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000 <	32
0107000	0.12	01037	COBALT-TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000 <	33
0107000	0.13	01143	IRON-TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP	UG/L	103.000	34
0107000	0.14	01055	MANGANESE-TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	7.000	35
0107000	0.13	01197	NICKEL-TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	6.000	36
0107000	0.12	01077	SILVER-TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000 <	37
0107000	0.17	01042	ZIRCONIUM-TOTAL RECOVERABLE UG/L AS SR ANAL-HV ICP	UG/L	1714.000	38
0107000	0.15	01087	VANADIUM-TOTAL RECOVERABLE UG/L AS V ANAL BY ICP	UG/L	5.000 <	39
0107000	0.19	01102	ZINC-TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000 <	40
0107000	0.20	02394	HARDNESS, CALC - MG/L	MG/L	161.000	41
						42
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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

REPORT: 100-479  
SAMPLE: PW04730

PAGE: 16  
DATE: 01/24/94

FACILITY: 027150 ROUND LAKE  
TAP: 1 WELL 1  
RND SRC: 20258 WELL 1 REAR 322 RAILROAD AVE

SAMPLE NO: 2004731 LOCATION: WELL

COLLECTOR: IEPA SMPL COLLECTOR

SAMPL PUMP: SPEC/OTHER COMMENTS:

1-1/4 INCHES DISPATNS:

STATUS: A

PUBLIC: Y

COMM: Y

TYPE: WATER

STATUS: A

STATUS: A

STATUS: A

COLL DATE: 01/07/87 DELIVERED BY:

LAB RCVD: 00/00/00 RECEIVED BY:

LAB COMPL: 00/00/00 LAB SUPERVISOR:

SMPL PERIOD: 01/87 FUND CODE:

ANALYSIS #111 STORE#111 TRIG#111

ID NC NO DESCRIPTION UNITS RESULT DRINK WTR RAW WTR LEVEL

000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	0.210		
000001	001	20530	NITRATE & NITRITE TOTAL MG/L AS N	0.100	10.000	
000001	005	00605	PHOSPHORUS, TOTAL MG/L AS P	0.010	<	
000001	004	00762	CYANIDE, TOTAL MG/L AS CN	0.010	<	0.200
000001	005	00116	CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	29.000		
000001	006	00167	MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	20.000		
000001	007	00723	SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	32.000		
000001	008	00137	POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	1.000		
000001	009	00940	CHLORIDE, TOTAL MG/L AS CL	2.200		
000001	010	00247	SULFATE, TOTAL MG/L AS SO4	130.000		
000001	011	00751	FLUORIDE, TOTAL MG/L AS F	1.000		4.000
000001	012	00256	SILICA, TOTAL MG/L AS SiO2	13.000		
000001	013	00955	SILICA, TOTAL MG/L AS SiO2	13.000		
000001	014	01102	ARSENIC, TOTAL RECOVERABLE UG/L AS AS	1.000	<	50.000
000001	015	01007	BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	7.000		1000.000
000001	016	01112	ZERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	0.500	<	
000001	017	01022	HORON, TOTAL RECOVERABLE UG/L AS H ANAL BY ICP	551.000		
000001	018	01027	CADMIUM, TOTAL RECOVERABLE UG/L AS Cd ANAL BY ICP	3.000	<	10.000
000001	019	01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS Cr ANAL BY ICP	5.000	<	50.000
000001	020	01137	COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000	<	
000001	021	01042	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000	<	5000.000
000001	022	01045	IRON, TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP	75.000		1000.000
000001	023	01021	LEAD, TOTAL RECOVERABLE UG/L AS Pb	5.000	<	50.000
000001	024	01153	MANGANESE, TOTAL RECOVERABLE UG/L AS Mn ANAL BY ICP	5.000	<	150.000
000001	025	01067	NICKEL, TOTAL RECOVERABLE UG/L AS Ni ANAL BY ICP	5.000	<	
000001	026	01177	SILVER, TOTAL RECOVERABLE UG/L AS Ag ANAL BY ICP	3.000	<	50.000
000001	027	01032	STRONTIUM, TOTAL RECOVERABLE UG/L AS Sr ANAL BY ICP	968.000		
000001	028	01047	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP	5.000	<	
000001	029	01092	ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000	<	5000.000
000001	030	01113	ALUMINUM, TOTAL RECOVERABLE UG/L AS Al ANAL BY ICP	50.000	<	
000001	031	01147	SELENIUM, TOTAL RECOVERABLE UG/L AS SE	1.000	<	10.000
000001	032	01172	2-PHENOL, TOTAL RECOVERABLE UG/L	5.000	<	
000001	033	01020	RESIDUE, TOTAL FILTERABLE 0180 CM3/L	\$33.000		
000001	034	01204	MERCURY, TOTAL UG/L AS HG	0.050	<	2.000
000001	035	00559	FLOW (PUMPING) RATE GAL/MIN	145.000		
000001	036	01204	FLOW (PUMPING) TIME PUMP TO SAMPLING MIN	385.000		
000001	037	00413		167.000		

SAMPLE NO: 2004730 LOCATION: WELL  
SAMPLE TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR

COLL DATE: 01/07/87 DELIVERED BY:

LAB RCVD: 00/00/00 RECEIVED BY:



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

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PAGE: 17  
DATE: 5/1/2014

FACILITY: 0971500 ROYAL LAKE

CONTINUED

FACILITY:	0971500 ROJID LAKE							
	*** CONTINUED ***							
0000001	012	00956	SILICA, TOTAL $\text{mg/l}$ AS \$1.02	14.000				
0000001	013	21052	ARSENIC, TOTAL RECOVERABLE $\text{ug/l}$ AS AS	1.100 <	50.000			
0000001	014	01007	BARIUM, TOTAL RECOVERABLE $\text{ug/l}$ AS BA ANAL BY ICP	19.000				
0000001	015	01112	BERYLLOUM, TOTAL RECOVERABLE $\text{ug/l}$ AS BE ANAL 3V ICP	0.500 <				
0000001	016	01022	BORON, TOTAL RECOVERABLE $\text{ug/l}$ AS B ANAL BY ICP	510.000				
0000001	017	11027	CADMIUM, TOTAL RECOVERABLE $\text{ug/l}$ AS CD ANAL BY ICP	3.000 <	10.000			
0000001	018	01034	CHROMIUM, TOTAL RECOVERABLE $\text{ug/l}$ AS CR ANAL BY ICB	5.000 <	50.000			
0000001	019	31037	COBALT, TOTAL RECOVERABLE $\text{ug/l}$ AS CO ANAL HY ICP	3.000 <				
0000001	020	01042	COPPER, TOTAL RECOVERABLE $\text{ug/l}$ AS CU ANAL BY ICP	5.000 <	\$000.000			
0000001	021	01145	IRON, TOTAL RECOVERABLE, $\text{ug/l}$ AS FEANAL BY ICP	99.000	1000.000			
0000001	022	01051	LEAD, TOTAL RECOVERABLE $\text{ug/l}$ AS PB	5.000 <	50.000			
0000001	023	01155	MANGANESE, TOTAL RECOVERABLE $\text{ug/l}$ AS MN ANAL BY ICP	5.000 <	150.000			
0000001	024	01067	NICKEL, TOTAL RECOVERABLE $\text{ug/l}$ AS NI ANAL BY ICP	3.000 <				
0000001	025	01177	SILVER, TOTAL RECOVERABLE $\text{ug/l}$ AS AG ANAL BY ICP	3.000 <	50.000			
0000001	026	01032	STRONTIUM, TOTAL RECOVERABLE $\text{ug/l}$ AS SR ANAL BY ICP	976.000				
0000001	027	01117	VANADIUM, TOTAL RECOVERABLE $\text{ug/l}$ AS V ANAL BY ICP	5.000 <				
0000001	028	01152	ZINC, TOTAL RECOVERABLE $\text{ug/l}$ AS ZN ANAL BY ICP	50.000 <	\$000.000			
0000001	029	01112	ALUMINUM, TOTAL RECOVERABLE $\text{ug/l}$ AS AL ANAL BY ICP	50.000 <				
0000001	030	01147	SELENIUM, TOTAL RECOVERABLE $\text{ug/l}$ AS SE	1.000 <	10.000			
0000001	031	32755	PHENOLS, TOTAL RECOVERABLE $\text{ug/l}$	5.000 <				
0000001	032	71350	RESIDUE, TOTAL FILTERABLE @180 $\text{C}, \text{mg/l}$	390.000				
0000001	033	71203	MERCURY, TOTAL $\text{ug/l}$ AS HG	0.010 <	2.000			
0000001	034	00010	WATER TEMPERATURE DEG C	12.500				
0000001	035	00150	FLOW (PUMPING) RATE GAL/MIN	300.000				
0000001	036	00020	OXIDATION-REDUCTION POTENTIAL (SER) MILLIVOLTS	185.000-				
0000001	037	00055	CONDUCTIVITY(0°C)-LAUMHOFSCHM @ 25 C	535.000				
0000001	038	00400	PH PH UNITS	8.000				
0000001	039	00011	ALKALINITY, TOTAL $\text{mg/l}$ AS $\text{CaCO}_3$	176.000				
0000001	040	74006	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	90.000				
0000001	041	00170	DEPTH FROM LAND SURFACE TO WATER SURFACE	59.000				
0000001	042	93610		171.000				
0000001	043	00264	LOCATION: WELL #2		COLL DATE: 02/09/83	DELIVERED BY:		
0000001	044	00001	COLLECTOR: RANDALL FINEPACH		LAB RCVO: 03/15/83	RECEIVED BY:		
0000001	045	00001	COMMENT:		LAB COMPL:	LAB SUPERVISOR:		
0000001	046	00001	SPMPL PERIOD: 02/93		FUND CODE:			
0000001	047	00001						
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0000001	169	00001						
0000001	170	00001						
0000001	171	00001						
0000001	172	00001						
0000001	173	00001						
0000001	174	00001						
0000001	175	00001						
0000001	176	00001						
0000001	177	00001						
0000001	178	00001						
0000001	179	00001						
0000001	180	00001						
0000001	181	00001						
0000001	182	00001						
0000001	183	00001						
0000001	184	00001						
0000001	185	00001						
0000001	186	00001						

CONTINUED

ACILITY: 571200 ROUND LAKE

ACADEMY: 571

SAMPLE NO: Z00473		LOCATION: WELL		COLL. DATE: 08/06/71	
ITEM	TYPE:	COLLECTOR:	COMMENTS:	LAB REC'D:	LAB COMPL:
SAMP. #	PURP.:	Spec/Other	Provatis:	SMPL PERIOD:	STAN
ID	NO.	DESCRIPTION	UNITS	RESULT	DRINK WTR
Z00473	001	32101 3BROMODICHLOROMETHANE UG/L CG/MS	1.000 <		
Z00473	002	32102 CARBON TETRACHLORIDE UG/L CG/MS	1.000 <		\$0.000
Z00473	003	32103 1,2-DICHLOROETHANE UG/L	1.000 <		\$0.000
Z00473	004	32104 1-BROMOFORM UG/L CG/MS	1.000 <		\$0.000
Z00473	005	32105 DIISOMOCHLOROMETHANE UG/L GC/MS	1.000 <		
Z00473	006	32106 CHLOROFORM UG/L GC/MS	1.000 <		
Z00473	007	32107 TOLUENE UG/L	1.000 <		1000.000
Z00473	008	32108 BENZENE UG/L	1.000 <		5.000
Z00473	009	32109 CHLOROBENZENE UG/L	1.000 <		1000.000
Z00473	010	32110 ETHYL ACETATE UG/L	1.000 <		700.000
Z00473	011	32111 METHYLENE CHLORIDE UG/L	1.000 <		\$0.000
Z00473	012	32112 TETRACHLOROETHYLENE UG/L GC/MS	1.000 <		\$0.000
Z00473	013	32113 1,1-DICHLOROETHANE UG/L GC/MS	1.000 <		\$0.000
Z00473	014	32114 1,1-DICHLOROETHYLENE UG/L GC/MS	1.000 <		7.000
Z00473	015	32115 1,1-DICHLOROETHYLENE UG/L GC/MS	1.000 <		200.000
Z00473	016	32116 1,1-TRICHLOROETHANE UG/L GC/MS	1.000 <		5.000
Z00473	017	32117 TRICHLOROETHYLENE UG/L	1.000 <		







## ROUND LAKE

The village of Round Lake (1531) installed a public water supply in 1914. One well (No. 2) is in use and another well (No. 1) is available for emergency use. This supply was cross connected with Round Lake Park in October 1951, but water from Round Lake Park has not been used for several years. In 1949 there were 140 services, all metered; the average and maximum daily pumpages were 50,000 and 75,000 gpd, respectively. In 1973 there were 500 services, all metered; the average and maximum daily pumpages were 190,000 and 280,000 gpd, respectively. The water is chlorinated. The natural fluoride concentration in the water is adequate to satisfy state requirements.

WELL NO. 1, finished in Silurian dolomite, was completed in 1912 to a depth of 350 ft by Adam Titus, Libertyville. This well is available for emergency use. The well is located in the rear of the village hall, about 110 ft south of the Chicago, Milwaukee, and St. Paul RR and 430 ft east of Cedar Lake Road, approximately 1550 ft S and 2400 ft W of the NE corner of Section 29, T45N, R10E. The land surface elevation at the well is approximately 798 ft.

A 6-in. diameter hole was drilled to a depth of 350 ft. The well is cased with 6-in. pipe from land surface to a depth of 230 ft.

Upon completion, water was pumped at a rate of 150 gpm for 24 hr. The water returned to its original level soon after the pump was stopped. In the summer of 1922 when the pump was pulled, the depth to water was 43 ft below the pump base.

In January 1945, the well reportedly produced 175 gpm for 1.5 hr with a drawdown of 10 ft from a nonpumping water level of 40 ft below the pump base.

The pumping equipment presently installed consists of a 10-hp 1750 rpm General Electric Induction motor (No. 5345661), a 6-in., 16-stage Cook turbine pump (Serial No. 1912) set at 150 ft, rated at 130 gpm, and has 150 ft of 4-in. OD column pipe. The well is equipped with 150 ft of airline without a gage.

A mineral analysis of a sample (Lab. No. 107669) collected September 10, 1946, after pumping for 4 hr at 125 gpm, showed the water to have a hardness of 165 mg/l, total dissolved minerals of 434 mg/l, and an iron content of 0.1 mg/l.

WELL NO. 2, finished in Silurian dolomite, was completed in May 1945 to a depth of 359 ft by Henry Boysen, Jr., Libertyville, and filled in to a 333-ft depth by the Aurora Pump Co. during the summer of 1963. The well is located in the rear of the village garage, about 360 ft north of the main track of the Chicago, Milwaukee, and St. Paul RR and 80 ft west of the center line of Cedar Lake Road, approximately 600 ft S and 2175 ft E of the NW corner of Section 29, T45N, R10E. The land surface elevation at the well is approximately 790 ft.

A sample study log of Well No. 2 furnished by the State Geological Survey follows:

<i>Strata</i>	<i>Thickness</i> (ft)	<i>Depth</i> (ft)
PLEISTOCENE SYSTEM		
Clay, glacial till and silt	169	169
Sand and gravel	2	171
Sand, silty	44	215
Sand and gravel	10	225
SILURIAN SYSTEM		
Niagaran-Alexandrian Series		
Dolomite	89	314
ORDOVICIAN SYSTEM		
Mequoketa Group		
Dolomita, shale at top and base	45	359

A 10-in. diameter hole was drilled to a depth of 359 ft. The well is cased with 10-in. ID pipe from 2 ft above land surface to a depth of 226 ft.

A production test was conducted on May 19, 1945. The well reportedly produced from 280 to 295 gpm for 7.6 hr with a drawdown of 107 ft from a nonpumping water level of 51 ft below the top of the casing. Ten min after pumping was stopped, the water level had recovered to 56 ft.

In June 1963, this well was rejuvenated by the Aurora Pump Co. and the nonpumping water level was reported to be 85 ft above the bottom of the column pipe.

The pumping equipment presently installed is an 8-in., 10-stage Aurora turbine pump (Type DWT) set at 140 ft, rated at 250 gpm at about 275 ft TDH, and powered by a 25-hp 1800 rpm U.S. electric motor (Serial No. 586755). A 10-ft section of 6-in. suction pipe is attached to the pump intake. The well is equipped with 140 ft of airline.

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. C005278) is for a water sample from the well collected January 22, 1974, after 1 hr of pumping at 325 gpm.

### WELL NO. 2, LABORATORY NO. C005278

	<i>mg/l</i>	<i>me/l</i>		<i>mg/l</i>	<i>me/l</i>
Iron	Fe	0.1	Silica	SiO <sub>2</sub>	14.0
Manganese	Mn	0.00	Fluoride	F	0.9 0.05
Ammonium	NH <sub>4</sub>	0.77 0.04	Boron	B	0.7
Sodium	Na	60 2.61	Nitrate	NO <sub>3</sub>	0.3 0.00
Potassium	K	1.3 0.03	Chloride	Cl	3 0.08
Calcium	Ca	28 1.40	Sulfate	SO <sub>4</sub>	122 2.54
Magnesium	Mg	18 1.48	Alkalinity (as CaCO <sub>3</sub> )	158	3.16
Arsenic	As	0.00			
Barium	Ba	0.0	Hardness (as CaCO <sub>3</sub> )	144	2.88
Copper	Cu	0.00			
Cadmium	Cd	0.00	Total dissolved		
Chromium	Cr	0.00	minerals		326
Lead	Pb	0.00			
Mercury	Hg	0.0000	pH (as rec'd)	8.2	
Nickel	Ni	0.0	Radioactivity		
Selenium	Se	0.00	Alpha pc/l	0.1	
Silver	Ag	0.00	± deviation	0.8	
Cyanide	CN	0.00	Beta pc/l	1.7	
Zinc	Zn	0.01	± deviation	1.6	

WELL NO. 3, open to the Cambrian-Ordovician aquifer, was completed in August 1974 to a depth of 1241 ft by the Hoover Water Well Service, Zion. As of March 1976, this well was not in use. The well is located on Nippersink Road, approximately 2600 ft N and 1575 ft W of the SE corner of Section 30, T45N, R10E. The land surface elevation at the well is approximately 790 ft.

A driller's log of Well No. 3 follows:

<i>Strata</i>	<i>Thickness</i> (ft)	<i>Depth</i> (ft)
Glacial drift	196	196
Silurian dolomite	169	365
Maquoketa shale	127	492
Galena-Platteville dolomite	248	740
Glenwood	114	854
St. Peter sandstone	104	958
Trempealeau	144	1102
Gelesville sandstone	126	1228
Shale	13	1241

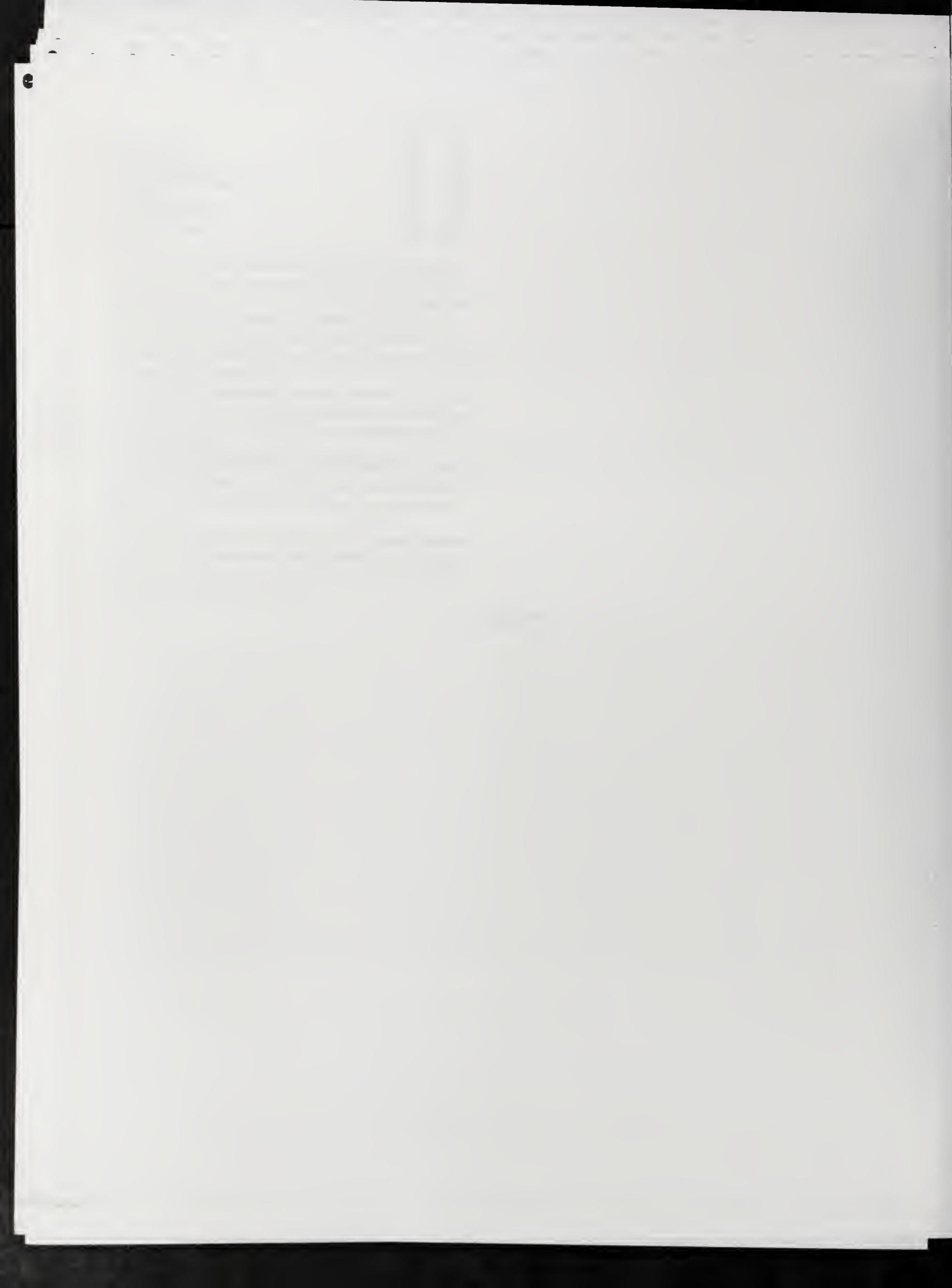
A 12-in. diameter hole was drilled to a depth of 588 ft, reduced to 10 in. between 588 and 1027 ft, and finished 8 in. in diameter from 1027 to 1241 ft. The well is cased with 12-in. pipe from land surface to a depth of 193 ft, 10-in. pipe from land surface to a depth of 588 ft (cemented in), and an 8-in. liner from 759 ft to a depth of 1027 ft (slotted between 860 and 950 ft).

A production test was conducted by the driller on August 19-20, 1974. After 24.2 hr of pumping at a rate of 300 gpm, the final drawdown was 120 ft from a nonpumping water level of 377 ft.

The pumping equipment presently installed is a Johnston vertical turbine pump set at 660 ft, rated at 450 gpm at about 690 ft TDH, and powered by a 125-hp 1770 rpm electric motor.

A partial analysis of a sample (Lab. No. 196669) collected during the initial production test, showed the water to have a hardness of 232 mg/l, total dissolved minerals of 319 mg/l, and an iron content of 0.5 mg/l.

**APPENDIX G**



HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 2 0 2 9 8 - 0 1 - , Distance and Direction from the Wellhead 100 ft. southwest of the well
2. Nature of Business Hardware Store
3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None
4. DAPC Permit Number(s) and Description: None
5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None
6. ERU Incidents and Description: None
7. ERU 313 Reports and Description: None
8. ESDA 302/303 Reports and Description: None
9. ESDA 311/312 Reports and Description: None
10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None
11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name

Address

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12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: \_\_\_\_\_

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occurred?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)

(X) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)

( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

(c).(continued)

- Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils
- Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act
- Reordering or other replenishment of inventory due to the amount of substance lost
- Temporary or more long-term monitoring of groundwater at or near the site
- Stop usage of an on-site or nearby water well because of offensive characteristics of the water
- Coping with fumes from subsurface storm drains or inside basements
- Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

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18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

Yes. If yes, describe: \_\_\_\_\_

No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

Yes. If yes, describe: \_\_\_\_\_

No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

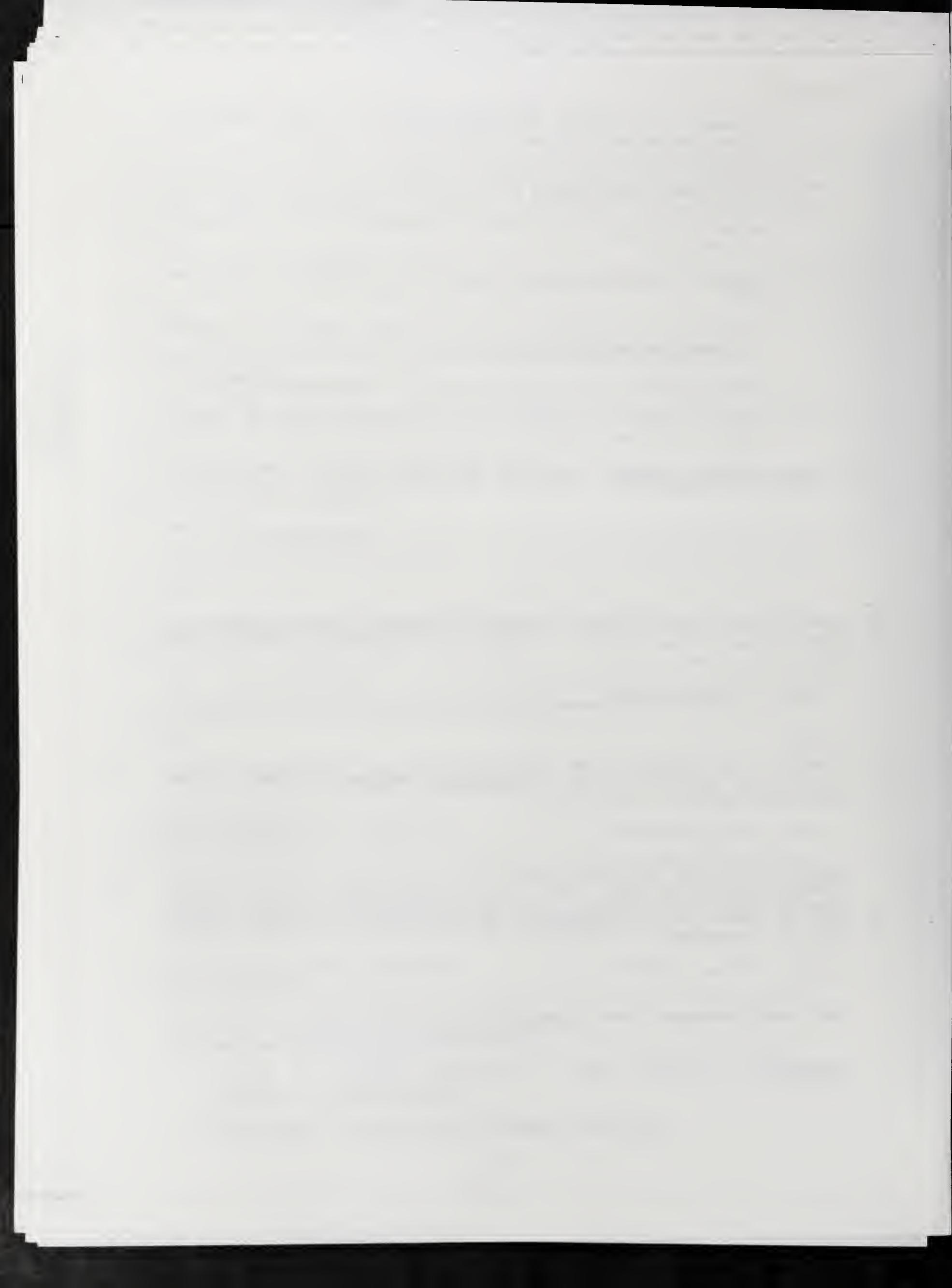
Yes. If yes, describe: \_\_\_\_\_

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No.



## HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 2 0 2 9 8 - 0 3 - P S, Distance and Direction from the Wellhead 100 ft. northwest of the well
2. Nature of Business Service Station and
3. DLPC Permit Number(s) and Description (e.g., PCRA, Generic, Solid Waste, UIC, etc.): None
4. DAPC Permit Number(s) and Description: None
5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None
6. ERU Incidents and Description: None
7. ERU 313 Reports and Description: None
8. ESDA 302/303 Reports and Description: None
9. ESDA 311/312 Reports and Description: None
10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None
11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name

Gerald Molidor

Address

320 W. Nippersink, Round Lake, IL 60073

12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: \_\_\_\_\_

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occurred?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

(X) Yes. If yes, describe: 3 registered underground storage tanks on site.  
OSFM #2-018131

( ) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)  
(X) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)  
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

(c).(continued)

- Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils
- Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act
- Reordering or other replenishment of inventory due to the amount of substance lost
- Temporary or more long-term monitoring of groundwater at or near the site
- Stop usage of an on-site or nearby water well because of offensive characteristics of the water
- Coping with fumes from subsurface storm drains or inside basements
- Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

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18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

Yes. If yes, describe: \_\_\_\_\_

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No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

Yes. If yes, describe: \_\_\_\_\_

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No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

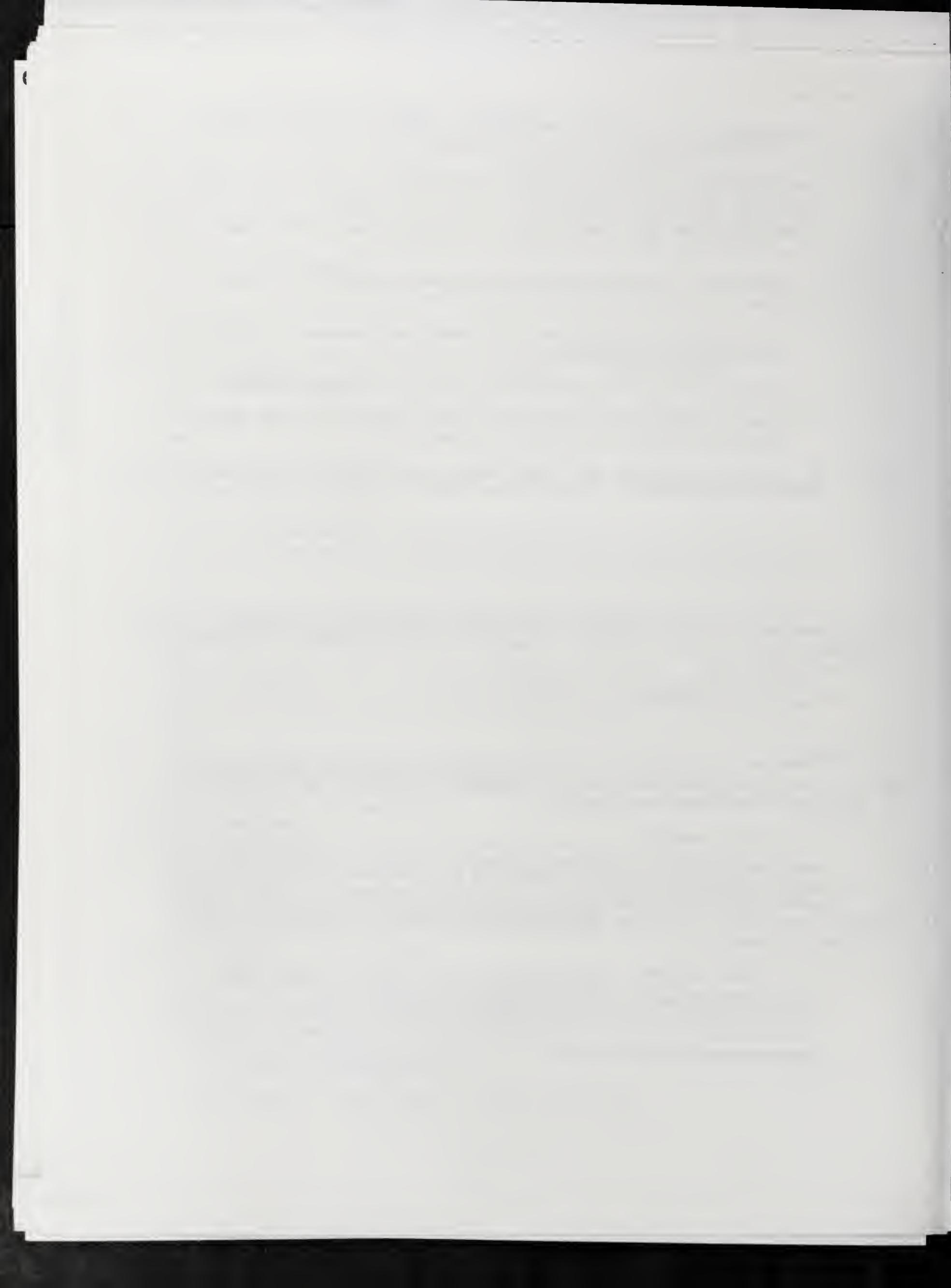
Yes. If yes, describe: Any below ground fuel tanks in close proximity to a water well is a potential hazard to groundwater.

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No.



## HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 2 0 2 9 8 - 0 4 - , Distance and Direction from the Wellhead 50 ft. north of the well
2. Nature of Business Lumber Yard
3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None
4. DAPC Permit Number(s) and Description: None
5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None
6. ERU Incidents and Description: None
7. ERU 313 Reports and Description: None
8. ESDA 302/303 Reports and Description: None
9. ESDA 311/312 Reports and Description: None
10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None
11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name

Address

12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: \_\_\_\_\_

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occurred?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

( ) Yes. If yes, describe: \_\_\_\_\_

(X) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)  
(X) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)  
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

(c).(continued)

- Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils
- Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act
- Reordering or other replenishment of inventory due to the amount of substance lost
- Temporary or more long-term monitoring of groundwater at or near the site
- Stop usage of an on-site or nearby water well because of offensive characteristics of the water
- Coping with fumes from subsurface storm drains or inside basements
- Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

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18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

Yes. If yes, describe: \_\_\_\_\_

No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

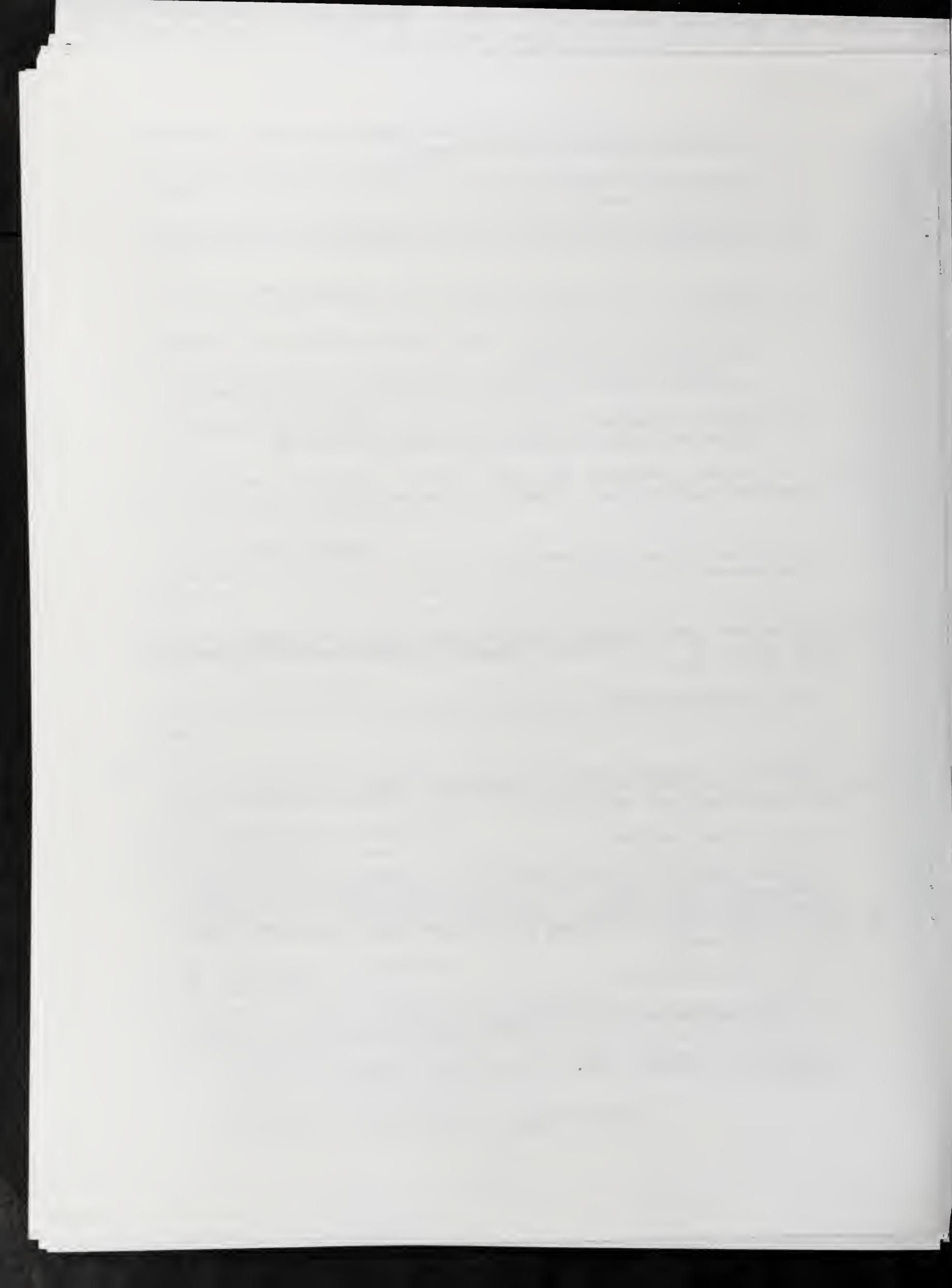
Yes. If yes, describe: \_\_\_\_\_

No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

Yes. If yes, describe: \_\_\_\_\_

No.





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